

Substitute for form 1449A&B/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				<i>Application Number</i>	10/734,963
				<i>Filing Date</i>	December 11, 2003
				<i>First Named Inventor</i>	Chou, Hou-Pu
				<i>Art Unit</i>	1743
				<i>Examiner Name</i>	Sines, Brian J.
<i>Sheet</i>	1	of	17	<i>Attorney Docket Number</i>	020174-009630US

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code ² (if known)			
	AA	RE 36,350	10-26-1999	Swedberg et al.	
	AB	US-2001-0029983 A1	10-18-2001	Unger et al.	
	AC	US-2001-0041357 A1	11-15-2001	Fouillet et al.	
	AD	US-2002-0005354 A1	01-17-2002	Spence et al.	
	AE	US-2002-0012926 A1	01-31-2002	Quake et al.	
	AF	US-2002-0058332 A1	05-16-2002	Quake et al.	
	AG	US-2002-0064885 A1	05-30-2002	Bedingham et al.	
	AH	US-2002-0108096 A1	08-08-2002	Lee et al.	
	AI	US-2002-0108097 A1	08-08-2002	Harris et al.	
	AJ	US-2002-0109114 A1	08-15-2002	Driggs et al.	
	AK	US-2002-0124896 A1	09-12-2002	O'Connor et al.	
	AL	US-2002-0127736 A1	09-12-2002	Fu et al.	
	AM	US-2002-0145231 A1	10-10-2002	Hansen et al.	
	AN	US-2002-0158022 A1	10-31-2002	Huang et al.	
	AO	US-2002-0197603 A1	12-26-2002	Chow et al.	
	AP	US-2003-0019833 A1	01-30-2003	Unger et al.	
	AQ	US-2003-0134129 A1	07-17-2003	Lammertink et al.	
	AR	US-2003-0143120 A1	07-31-2003	Ruediger et al.	
	AS	US-2003-0175947 A1	09-18-2003	Liu et al.	
	AT	US-2003-0196695 A1	10-23-2003	O'Connor et al.	
	AU	US-2004-0096960 A1	05-20-2004	Burd Mehta et al.	
	AV	US-2004-0141887 A1	07-22-2004	Mainquist et al.	
	AW	US-6,444,426 B1	09-03-2002	Short et al.	
	AX	US-6,488,832 B2	12-03-2002	Heller	
	AY	US-6,488,872 B1	12-03-2002	Beebe et al.	
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	BA	US-6,528,249 B1	03-04-2003	Short	
	BB	US-6,533,914 B1	03-18-2003	Liu	
	BC	US-6,537,799 B2	03-25-2003	Chow et al.	
	BD	US-6,541,071 B1	04-01-2003	Bookbinder et al.	
Examiner Signature	/Brian Sines/ (06/20/2008)			Date Considered	

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	BE	US-6,555,315 B1	04-29-2003	Short	
	BF	US-6,563,111 B1	05-13-2003	Moon et al.	
	BG	US-6,569,382 B1	05-27-2003	Edman et al.	
	BH	US-6,581,441 B1	06-24-2003	Paul	
	BI	US-6,596,545 B1	07-22-2003	Wagner et al.	
	BJ	US-6,605,472 B1	08-12-2003	Skinner et al.	
	BK	US-6,627,076 B2	09-30-2003	Griffiths	
	BL	US-6,637,463 B1	10-28-2003	Lei et al.	
	BM	US-6,645,432 B1	11-11-2003	Anderson et al.	
	BN	US-6,662,818 B2	12-16-2003	Paul et al.	
	BO	US-6,664,104 B2	12-16-2003	Pourahmadi et al.	
	BP	US-6,677,131 B2	01-13-2004	Yuen	
	BQ	US-6,689,473 B2	02-10-2004	Guire et al.	
	BR	US-6,713,327 B2	03-30-2004	Leedy	
	BS	US-6,716,378 B2	04-06-2004	Yang et al.	
	BT	US-6,736,978 B1	05-18-2004	Porter et al.	
	BU	US-6,749,814 B1	06-15-2004	Bergh et al.	
	BV	US-6,752,922 B2	06-22-2004	Huang et al.	
	BW	US-6,765,279 B2	07-20-2004	Leedy	
	BX	US-6,829,753 B2	12-07-2004	Lee et al.	
	BY	US-6,866,785 B2	03-15-2005	Zare et al.	
	BZ	US-6,884,346 B2	04-26-2005	Zare et al.	
	CA	US-6,885,982 B2	04-26-2005	Harris et al.	
	CB	US-6,977,145 B2	12-20-2005	Fouillet et al.	
	CC	US-			
	CD	US-			

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	Country Code ³	Number ⁴	Kind Code ⁵ (if known)				
	CE	DE	299 17 313	A1	02-15-2001	MWG Biotech AG	<input type="checkbox"/>
	CF	EP	0 579 997	A1	01-26-1994	DuPont	<input type="checkbox"/>
	CG	EP	1 065 378	A2	01-03-2001	California Institute Of Technology	<input type="checkbox"/>
	CH	GB	2 097 692	A	11-10-1982	Patrick Douglas Shaw Stewart	<input type="checkbox"/>
	CI	JP	9-043251		02-14-1997	Olympus Optical Co.	<input type="checkbox"/>
	CJ	WO	00/53801	A1	09-14-2000	Merck Frosst Canada Inc.	<input type="checkbox"/>
	CK	WO	00/68414	A2	11-16-2000	Merck Frosst Canada Inc.	<input type="checkbox"/>
	CL	WO	00/70082	A1	11-23-2000	Secr. Defence et al.	<input type="checkbox"/>
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	CN	WO	01/07061	A1	02-01-2001	Smithkline Beecham Corp	<input type="checkbox"/>
	CO	WO	01/24937	A2	04-12-2001	Pyrosequencing	<input type="checkbox"/>
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	CR	WO	01/45843		06-28-2001	Gene Logic Inc.	<input type="checkbox"/>
	CS	WO	01/53794	A1	07-26-2001	Northeastern University	<input type="checkbox"/>
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	CV	WO	02/29106	A2	04-11-2002	California Institute Of Technology	<input type="checkbox"/>
	CW	WO	02/30486	A2	04-18-2002	Fluidigm Corporation	<input type="checkbox"/>
	CX	WO	02/40874	A1	05-23-2002	California Institute Of Technology	<input type="checkbox"/>
	CY	WO	02/43615	A2	06-06-2002	California Institute Of Technology	<input type="checkbox"/>
	CZ	WO	02/60582	A2	08-08-2002	Fluidigm Corporation	<input type="checkbox"/>
	DA	WO	02/65005	A1	08-22-2002	California Institute Of Technology	<input type="checkbox"/>

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		Country Code ³	Number ⁴	Kind Code ⁵ (if known)				
	DB	WO	02/72892	A1	09-19-2002	California Institute Of Technology		<input type="checkbox"/>
	DC	WO	02/81729	A2	10-17-2002	California Institute Of Technology		<input type="checkbox"/>
	DD	WO	02/81935	A2	10-17-2002	Fluidigm Corporation		<input type="checkbox"/>
	DE	WO	02/82047	A2	10-17-2002	California Institute Of Technology AND The Regents Of The University Of California		<input type="checkbox"/>
	DF	WO	03/037781	A1	05-08-2003	Motorola, Inc.		<input type="checkbox"/>
	DG	WO	03/48295	A1	06-12-2003	Fluidigm Corporation		<input type="checkbox"/>
	DH	WO	90/15070	A1	12-13-1990	Affymax Technologies N.V.		<input type="checkbox"/>
	DI	WO	92/16657	A1	10-01-1992	DuPont		<input type="checkbox"/>
	DJ	WO	96/04547	A1	02-15-1996	Lockheed Martin Energy Systems, Inc.		<input type="checkbox"/>
	DK	WO	96/27025	A1	09-06-1996	Rabani, Ely Michael		<input type="checkbox"/>
	DL	WO	97/27324	A1	07-31-1997	Samoff David Res. Center		<input type="checkbox"/>
	DM	WO	97/45644	A1	12-04-1997	The University Of Washington		<input type="checkbox"/>
	DN	WO	98/00231	A1	01-08-1998	Caliper Technologies Corporation		<input type="checkbox"/>
	DO	WO	98/04742	A1	02-05-1998	Genzyme Corp. et al.		<input type="checkbox"/>
	DP	WO	98/10267	A1	03-12-1998	Technical University Of Denmark		<input type="checkbox"/>
	DQ	WO	98/45481	A1	10-15-1998	Caliper Technologies Corp. et al.		<input type="checkbox"/>
	DR	WO	98/52691	A1	11-26-1998	Alberta Research Council AND The University Of Alberta		<input type="checkbox"/>
	DS	WO	99/14311	A1	03-25-1999	SmithKline Beecham Corp. et al.		<input type="checkbox"/>
	DT	WO	99/36760	A1	07-22-1999	Genetic Microsystems, Inc.		<input type="checkbox"/>

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		Country Code ³	Number ⁴	Kind Code ⁵ (if known)				
	DU	WO	99/61888	A2	12-02-1999	California Institute of Technology et al.		<input type="checkbox"/>
	DV							<input type="checkbox"/>

NON PATENT LITERATURE DOCUMENTS					
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	DW	"Acousto-Optic Modulators" available at www.brimrose.com/acousto_modulators.html , 9-27-2000			<input type="checkbox"/>
	DX	ANDERSSON et al., "Consecutive Microcontact Printing - Ligands For Asymmetric Catalysis in Silicon Channel," Sensors & Actuators B, Vol. 3997, pp 1-7, 2001			<input type="checkbox"/>
	DY	Applied Biosystems, "TaqMan® PCR Reagent Kit With AmpliTaq Gold® DNA Polymerase Protocol," January 2003			<input type="checkbox"/>
	DZ	ASHKIN, A. et al., "Optical Trapping And Manipulation Of Viruses And Bacteria," Science, Vol. 235, pp. 1517-1520, March 20, 1987			<input type="checkbox"/>
	EA	AXELROD, DANIEL, "Cell-Substrate Contacts Illuminated By Total Internal Reflection Fluorescence," Journal of Cell Biology, Vol. 89, pp. 141-145, April 1981			<input type="checkbox"/>
	EB	BADER, JOEL S. et al., "DNA Transport By A Micromachined Brownian Ratchet Device," PNAS, Vol. 96, No. 23, pp. 13165-13169, November 9, 1999			<input type="checkbox"/>
	EC	BARRON, ANNELESE E. et al., "Capillary Electrophoresis Of DNA In Cross-Linked Polymer Solutions," Journal of Chromatography A, Vol. 652, pp. 3-16, 1993			<input type="checkbox"/>

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	ED	BARRON, ANNELEISE E. et al., "DNA Separations By Slab Gel And Capillary Electrophoresis - Theory And Practice," Separation and Purification Methods, Vol. 24, No. 1, pp. 1-118, 1995	<input type="checkbox"/>	
	EE	BARRON, ANNELEISE E. et al., "The Use Of Coated And Uncoated Capillaries For The Electrophoretic Separation Of DNA In Dilute Polymer-Solutions," Electrophoresis, Vol. 16, pp. 64-74, 1995	<input type="checkbox"/>	
	EF	BELGRADER et al., "A Battery-Powered Notebook Thermal Cycler For Rapid Multiplex Real-Time PCR Analysis," Anal. Chem., Vol. 73, pp. 286-289, 2001	<input type="checkbox"/>	
	EG	BELGRADER et al., "PCR Detection Of Bacteria In Seven Minutes," Science, 284(5413), pp. 449-450, 1999	<input type="checkbox"/>	
	EH	BLANCH, HARVEY W. et al., Biochemical Engineering, pp. 2 cover pages and 305, 1996	<input type="checkbox"/>	
	EI	BLANKENSTEIN, GERT et al., "Modular Concept Of A Laboratory On A Chip For Chemical And Biochemical Analysis," Biosensors & Bioelectronics, Vol. 13, Nos. 3-4, pp. 427-438, 1998	<input type="checkbox"/>	
	EJ	BRASLAVSKY et al., "Single Molecule Measurements of DNA Polymerase Activity: A Step Towards Single Molecule Sequencing", Biophysics Journal Abstracts Issue, 2002, p. 507A, Vol. 82, No. 1.	<input type="checkbox"/>	
	EK	BRESLAUER, KENNETH J. et al., "Predicting DNA Duplex Stability From The Base Sequence," Proc. Natl. Acad. Sci. USA, Vol. 83, pp. 3746-3750, June 1986	<input type="checkbox"/>	
	EL	BRODY, J. P. et al., "Low Reynolds Number Micro- Fluidic Devices," In Proc. Of Solid-State Sensor and Actuator Workshop, pp. 105-108, June 1996	<input type="checkbox"/>	
	EM	BRODY, JAMES P. et al., "Significance And Statistical Errors In The Analysis Of Dna Microarray Data," PNAS, Vol. 99, No. 20, pp. 12975-12978, October 1, 2002	<input type="checkbox"/>	
	EN	BRUSH, MICHAEL, "Automated Laboratories," The Scientist, Vol. 13, No. 4, 10 pages, February 15, 1999	<input type="checkbox"/>	
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	EO	BULYK, MARTHA L. et al., "Quantifying DNA-Protein Interactions By Double-Stranded DNA Arrays," Nature Biotechnology, Vol. 17, pp. 573-577, June 1999	<input type="checkbox"/>	
	EP	BURNS et al., "An Integrated Nanoliter DNA Analysis Device," Science, Vol. 282, pp. 484-487, 1998	<input type="checkbox"/>	
	EQ	CHAUDHARI et al., "Transient Liquid Crystal Thermometry Of Microfabricated PCR Vessel Arrays," J. Microelectromechanical Systems, 7(4), pp. 345-355, 1998	<input type="checkbox"/>	
	ER	CHEE, MARK et al., "Accessing Genetic Information With High-Density DNA Arrays," Science, Vol. 274, pp. 610-614, October 25, 1996	<input type="checkbox"/>	
	ES	CHIEM, N. H. et al., "Microchip Systems For Immunoassay: An Integrated Immunoreactor With Electrophoretic Separation For Serum Theophylline Determination," Clinical Chemistry, Vol. 44, No. 3, p. 591, 1998	<input type="checkbox"/>	
	ET	CHIOU et al., "A Closed-Cycle Capillary Polymerase Chain," Anal. Chem., Vol. 73, pp. 2018-2021, 2001	<input type="checkbox"/>	
	EU	COSTERTON, J. WILLIAM et al., "Microbial Biofilms," Annu. Rev. Microbiol., Vol. 49, pp. 711-745, 1995	<input type="checkbox"/>	
	EV	COWEN, S. et al., "An On-Chip Miniature Liquid Chromatography System: Design, Construction And Characterization," Micro Total Analysis Systems, Proceedings of the μ TAS '94 Workshop, University of Twente, The Netherlands, pp. 2 cover pages and 295-298, 1995	<input type="checkbox"/>	
	EW	DELUSA, MATTHEW P. et al., "Mapping Stress-Induced Changes In Autoinducer AI-2 Production In Chemostat-Cultivated <i>Escherichia coli</i> K-12," Journal of Bacteriology, Vol. 183, No. 9, pp. 2918-2928, May 2001	<input type="checkbox"/>	
	EX	DRMANAC, R. et al., "DNA Sequence Determination By Hybridization: A Strategy For Efficient Large-Scale Sequencing," Science, Vol. 260, pp. 1649-1652, June 11, 1993	<input type="checkbox"/>	
	EY	DRMANAC, SNEZANA et al., "Accurate Sequencing By Hybridization For DNA Diagnostics And Individual Genomics," Nature Biotechnology, Vol. 16, pp. 54-58, January 1998	<input type="checkbox"/>	
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	EZ	EFFENHAUSER, CARLO S. et al., "Miniaturizing A Whole Analytical Laboratory Down To Chip Size," American Laboratory, Vol. 26, No. 14, pp. cover, 15, 16, 18, 1994	<input type="checkbox"/>	
	FA	EFFENHAUSER, CARLO S., "Integrated Chip-Based Microcolumn Separation Systems," Topics in Current Chemistry, Vol. 194, pp. cover, 52-82, 1998	<input type="checkbox"/>	
	FB	ERLICH, H.A., PCR Technology, Basic Methodology: Stockton Press, New York, pp. 1-5, 1989	<input type="checkbox"/>	
	FC	FELIX, ARTHUR M. et al., "Pegylated Peptides IV - Enhanced Biological Activity Of Site-Directed Pegylated GRF Analogs," International Journal of Peptide & Protein Research, Vol. 46, pp. 253-264, 1995	<input type="checkbox"/>	
	FD	FELIX, Arthur M., "Site-Specific Poly(ethylene glycol)ylation Of Peptides," Poly(Ethylene Glycol) Chemistry and Biological Applications, ACS Symposium Series 680, pp. 2 cover pages, 218-238, 1997	<input type="checkbox"/>	
	FE	FODOR, STEPHEN P. A. et al., "Light-Directed, Spatially Addressable Parallel Chemical Synthesis," Science, Vol. 251, pp. 767-773, February 15, 1991	<input type="checkbox"/>	
	FF	FOTIN, ALEXANDER V. et al., "Parallel Thermodynamic Analysis Of Duplexes On Oligodeoxyribonucleotide Microchips," Nucleic Acids Research, Vol. 26, No. 6, pp. 1515-1521, 1998	<input type="checkbox"/>	
	FG	GENG, XINDU et al., "Retention Model For Proteins In Reversed-Phase Liquid Chromatography," Journal of Chromatography, Vol. 296, pp. 15-30, 1984	<input type="checkbox"/>	
	FH	GOMBOTZ, W. R. et al., "Pegylation: A Tool To Enhance Protein Delivery," Abstracts of Papers, American Chemical Society, Vol. 217, Part 2, 2 pages, March 21-25, 1999	<input type="checkbox"/>	
	FI	GRANJEAUD, SAMUEL et al., "Expression Profiling: DNA Arrays In Many Guises," BioEssays, Vol. 21, pp. 781-790, 1999	<input type="checkbox"/>	
	FJ	GUERRA, PATRICIA I. et al., "PEGylation Prevents The N-Terminal Degradation Of Megakaryocyte Growth And Development Factor," Pharmaceutical Research, Vol. 15, No. 12, pp. 1822-1827, 1998	<input type="checkbox"/>	
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			First Named Inventor	Chou, Hou-Pu	
			Art Unit	1743	
			Examiner Name	Sines, Brian J.	
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	FK	GUNDERSON, KEVIN L. et al., "Mutation Detection By Ligation To Complete <i>n</i> -mer DNA Arrays," <i>Genome Research</i> , Vol. 8, pp. 1142-1153, 1998	<input type="checkbox"/>	
	FL	GUO, ZHEN et al., "Enhanced Discrimination Of Single Nucleotide Polymorphisms By Artificial Mismatch Hybridization," <i>Nature Biotechnology</i> , Vol. 15, pp. 331-335, April 1997	<input type="checkbox"/>	
	FM	HANCOCK, ROBERT E. W., "A Brief On Bacterial Biofilms," <i>Nature Genetics</i> , Vol. 29, p. 360, December 2001	<input type="checkbox"/>	
	FN	HARRISON, D. JED et al., "Integration Of Analytical Systems Incorporating Chemical Reactions And Electrophoretic Separation," <i>Micro Total Analysis Systems, Proceedings of the μTAS '94 Workshop, University of Twente, The Netherlands</i> , pp. 2 cover pages and 105-111, 1995	<input type="checkbox"/>	
	FO	HEO, JINSEOK et al., "A Microfluidic Bioreactor Based On Hydrogel-Entrapped <i>E. coli</i> : Cell Viability, Lysis, And Intracellular Enzyme Reactions," <i>Analytical Chemistry</i> , Vol. 75, No. 1, pages 22-26, January 1, 2003	<input type="checkbox"/>	
	FP	HERBERT, D., "Continuous Culture Of Bacteria," <i>The Journal of General Microbiology</i> , Vol. 15, pp. 2 cover pages and iv, 1956	<input type="checkbox"/>	
	FQ	HERBERT, D., "Continuous Culture Of Bacteria: Principles And Applications," <i>Chemistry and Industry</i> , pp. 381, March 29, 1958	<input type="checkbox"/>	
	FR	HOHEISEL, JORG D., "Sequence-Independent And Linear Variation Of Oligonucleotide DNA Binding Stabilities," <i>Nucleic Acids Research</i> , Vol. 24, No. 3, pp. 430-432, 1996	<input type="checkbox"/>	
	FS	HONG et al., "Integration Of Gene Amplification And Capillary Gel Electrophoresis On A Polydimethylsiloxane-Glass Hybrid Microchip," <i>Electrophoresis</i> , Vol. 22, pp. 328-333, 2001	<input type="checkbox"/>	
	FT	HONG, JONG WOOK et al., "A Nanoliter-Scale Nucleic Acid Processor With Parallel Architecture," <i>Nature Biotechnology</i> , Vol. 22, No. 4, pp. 1-5, April 2004	<input type="checkbox"/>	

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	FU	HOPFGARTNER, GERARD et al., "Exact Mass Measurement Of Product Ions For The Structural Elucidation Of Drug Metabolites With A Tandem Quadrupole Orthogonal-Acceleration Time-Of-Flight Mass Spectrometer," Journal Of The American Society For Mass Spectrometry, Vol. 10, pp. cover, 1305-1314, December 1999	<input type="checkbox"/>
	FV	IBRAHIM et al., "Real-Time Microchip PCR For Detecting Single-Base Differences In Viral And Human DNA," Anal. Chem., Vol. 70, pp. 2013-2017, 1998	<input type="checkbox"/>
	FW	IGLOI, GABOR L., "Variability In The Stability Of DNA-Peptide Nucleic Acid (PNA) Single-Base Mismatched Duplexes: Real-Time Hybridization During Affinity Electrophoresis In PNA-Containing Gels," Proc. Natl. Acad. Sci. USA, Vol. 95, pp. 8562-8567, July 1998	<input type="checkbox"/>
	FX	INGRAHAM, JOHN L. et al., Growth Of The Bacterial Cell, pp. 3 cover pages and 230, 1983	<input type="checkbox"/>
	FY	JACKMAN, REBECCA J. et al., "Design And Fabrication Of Topologically Complex, Three-Dimensional Microstructures," Science, Vol. 280, pp. 2089-2091, June 26, 1998	<input type="checkbox"/>
	FZ	JACOBSON, STEPHEN C. et al., "Open Channel Electrochromatography On A Microchip," Analytical Chemistry, Vol. 66, No. 14, pp. 2369-2373, July 15, 1994	<input type="checkbox"/>
	GA	JANNASCH, H. W. et al., "Experimental Bacterial Ecology Studied In Continuous Culture," Advances In Microbial Physiology, Vol. 11, pp. cover and 165-212, 1974	<input type="checkbox"/>
	GB	KAMENSKY, LOUIS A. et al., "Spectrophotometer: New Instrument For Ultrarapid Cell Analysis," Science, Vol. 150, pp. 630-631, October 29, 1965	<input type="checkbox"/>
	GC	KANE et al., "Finite element analysis of nonsmooth contact", Computer Methods in Applied Mechanics and Engineering, 180(1-2):1-26 (1999)	<input type="checkbox"/>
	GD	KANE, R. S. et al., "Patterning Proteins And Cells Using Soft Lithography," Biomaterials, Vol. 20, pp. 2363-2376, 1999	<input type="checkbox"/>

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	GE	KHANDURINA et al., "Integrated System For Rapid PCR-Based DNA Analysis In Microfluidic Devices," Anal. Chem., Vol. 72, pp. 2995-3000, 2000	<input type="checkbox"/>	
	GF	KODERA, YOH et al., "Pegylation Of Proteins And Bioactive Substances For Medical And Technical Applications," Prog. Polym. Sci., Vol. 23, pp. 1233-1271, 1998	<input type="checkbox"/>	
	GG	KUTYAVIN, IGOR V. et al., "3-Minor Groove Binder-DNA Probes Increase Sequence Specificity At PCR Extension Temperatures," Nucleic Acids Research, Vol. 28, No. 2, pp. 655-661, 2000	<input type="checkbox"/>	
	GH	LANE, P. G., "Analysis Of A Continuous-Culture Technique For The Selection Of Mutants Tolerant To Extreme Environmental Stress," Biotechnology and Bioengineering, Vol. 65, No. 4, pp. 397-406, November 20, 1999	<input type="checkbox"/>	
	GI	LAWRENCE, J. R. et al., "Optical Sectioning Of Microbial Biofilms," Journal of Bacteriology, Vol. 173, No. 20, pp. 6558-6567, October 1991	<input type="checkbox"/>	
	GJ	LEE, L. STANFORD et al., "Prolonged Circulating Lives Of Single-Chain Fv Proteins Conjugated With Polyethylene Glycol: A Comparison Of Conjugation Chemistries And Compounds," Bioconjugate Chem., Vol. 10, pp. 973-981, 1999	<input type="checkbox"/>	
	GK	LIU, JIAN et al., "Solving The 'World-To-Chip' Interface Problem With A Microfluidic Matrix," Analytical Chemistry, Vol. 75, No. 18, pp. 4718-4723, September 15, 2003	<input type="checkbox"/>	
	GL	LORENZ, PATRICK et al., "Screening For Novel Enzymes For Biocatalytic Processes: Accessing The Metagenome As A Resource Of Novel Functional Sequence Space," Current Opinion in Biotechnology, Vol. 13, pp. 572-577, 2002	<input type="checkbox"/>	
	GM	MAIER, ELMAR et al., "Automated Array Technologies For Gene Expression Profiling," DDT, Vol. 2, No. 8, pp. 315-324, August 1997	<input type="checkbox"/>	
	GN	MALDONADO-RODRIGUEZ, ROGELIO et al., "Mutation Detection By Stacking Hybridization On Genosensor Arrays," Molecular Biotechnology, Vol. 11, pp. 13-25, 2000	<input type="checkbox"/>	

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	GO	MAREŠOVÁ, H. et al., "A Chemostat Culture As A Tool For The Improvement Of A Recombinant <i>E. coli</i> Strain Over-Producing Penicillin G Acylase," <i>Biotechnology And Bioengineering</i> , Vol. 75, No. 1, pp. 46-52, October 5, 2001	<input type="checkbox"/>	
	GP	MARTON, MATTHEW J. et al., "Drug Target Validation And Identification Of Secondary Drug Target Effects Using DNA Microarrays," <i>Nature Medicine</i> , Vol. 4, No. 11, pp. 1293-1301, November 1998	<input type="checkbox"/>	
	GQ	MASTRANGELO, C. H. et al., "Vacuum-Sealed Silicon Micromachined Incandescent Light Source," <i>IEDM</i> , pp. 503-506, 1989	<input type="checkbox"/>	
	GR	MENCHEN, STEVE et al., "Flowable Networks As DNA Sequencing Media In Capillary Columns," <i>Electrophoresis</i> , Vol. 17, pp. 1451-1459, 1996	<input type="checkbox"/>	
	GS	MONOD, JACQUES, "The Growth Of Bacterial Cultures," <i>Annual Review Of Microbiology</i> , Vol. III, pp. cover and 371-394, 1949	<input type="checkbox"/>	
	GT	NAKANO et al., "High Speed Polymerase Chain Reaction In Constant Flow," <i>Biosci. Biotech. Biochem.</i> , 58(2), pp. 349-352, 1994	<input type="checkbox"/>	
	GU	NIELSEN, JENS et al., <i>Bioreaction Engineering Principles</i> , Second Edition, pp. 2 cover pages and 42-45, 2003	<input type="checkbox"/>	
	GV	NOLAN, JOHN P. et al., "The Emergence Of Flow Cytometry For Sensitive, Real-Time Measurements Of Molecular Interactions," <i>Nature Biotechnology</i> , Vol. 16, pp. 633-638, July 1998	<input type="checkbox"/>	
	GW	NOVICK, AARON et al., "Description Of The Chemostat," <i>Science</i> , Vol. 112, pp. 715-716, December 15, 1950	<input type="checkbox"/>	
	GX	NOVICK, AARON et al., "Experiments With The Chemostat On Spontaneous Mutations Of Bacteria," <i>Proc. N. A. S.</i> , Vol. 36, pp. 708-719, 1950	<input type="checkbox"/>	
	GY	OAKLEY and Knight, "Adaptive dynamic relaxation algorithm for non-linear hyperelastic structures", <i>Computer Methods in Applied Mechanics and Engineering</i> , 126:67-89 (1995).	<input type="checkbox"/>	
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	GZ	OGDEN, "Elastic Deformations of Rubberlike Solids", in <i>Mechanics of Solids</i> , pp. 499-537 (1982)	<input type="checkbox"/>
	HA	PERSSON, BJORN et al., "Analysis Of Oligonucleotide Probe Affinities Using Surface Plasmon Resonance: A Means For Mutational Scanning," <i>Analytical Biochemistry</i> , Vol. 246, pp. 34-44, 1997	<input type="checkbox"/>
	HB	Phillips, W.C. and Rayment, I. "A systematic method for aligning double focusing mirrors." <i>Methods in Enzymology</i> , 1985, Vol. 114 (Wyckoff, Hirs and Timasheff, eds.), 316-329, Academic Press.	<input type="checkbox"/>
	HC	POPLAWSKI, M. E. et al., "A Simple Packaging Process For Chemical Sensors," <i>Solid-State Sensor and Actuator Workshop</i> , Hilton Head, South Carolina, pp. 25-28, June 13-16, 1994	<input type="checkbox"/>
	HD	QU, MINGBO et al., "Toxicity And Biodegradation Of Formaldehyde In Anaerobic Methanogenic Culture," <i>Biotechnology and Bioengineering</i> , Vol. 55, No. 5, pp. 727-736, September 5, 1997	<input type="checkbox"/>
	HE	RONDON, MICHELLE R. et al., "Cloning The Soil Metagenome: A Strategy For Accessing The Genetic And Functional Diversity Of Uncultured Microorganism," <i>Applied and Environmental Microbiology</i> , pp. 2541-2547, June 2000	<input type="checkbox"/>
	HF	ROTMAN, BORIS, "A Simplified Device For Continuous Growth Of Microorganisms," <i>Journal of Bacteriology</i> , Vol. 70, pp. 485-486, 1955	<input type="checkbox"/>
	HG	SCHENA, MARK et al., "Quantitative Monitoring Of Gene Expression Patterns With A Complementary DNA Microarray," <i>Science</i> , Vol. 270, pp. 467-470, October 20, 1995	<input type="checkbox"/>
	HH	SCHLOSS, PATRICK D. et al., "Biotechnological Prospects From Metagenomics," <i>Current Opinion in Biotechnology</i> , Vol. 14, pp. 303-310, 2003	<input type="checkbox"/>
	HI	SCHULLEK, JOHN R., "A High-Density Screening Format For Encoded Combinatorial Libraries: Assay Miniaturization And Its Application To Enzymatic Reactions," <i>Analytical Biochemistry</i> , Vol. 246, pp. 20-29, 1997	<input type="checkbox"/>

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	HJ	SHULER, MICHAEL L. et al., "Chapter 6 - How Cells Grow," Bioprocess Engineering Basic Concepts, Second Edition, pp. 2 cover pages and 155-200, 2002	<input type="checkbox"/>
	HK	SKLAR, LARRY A. et al., "Sample Handling For Kinetics And Molecular Assembly In Flow Cytometry, SPIE, Vol. 3256, pp. 144-153, 1998	<input type="checkbox"/>
	HL	SOSNOWSKI, RONALD G. et al., "Rapid Determination Of Single Base Mismatch Mutations In DNA Hybrids By Direct Electric Field Control," Proc. Natl. Acad. Sci. USA, Vol. 94, pp. 1119-1123, February 1997	<input type="checkbox"/>
	HM	SOUTHERN, E. M. et al., "Analyzing And Comparing Nucleic Acid Sequences By Hybridization To Arrays Of Oligonucleotides: Evaluation Using Experimental Models," Genomics, Vol. 13, pp. 1008-1017, 1992	<input type="checkbox"/>
	HN	SPELLMAN, PAUL T. et al., "Comprehensive Identification Of Cell Cycle-Regulated Genes Of The Yeast <i>Saccharomyces cerevisiae</i> By Microarray Hybridization," Molecular Biology of the Cell, Vol. 9, pp. 3273-3297, December 1998	<input type="checkbox"/>
	HO	SPICER, C. C., "The Theory Of Bacterial Constant Growth Apparatus," Biometrics, pp. 225-230, June 1955	<input type="checkbox"/>
	HP	STOMAKHIN, ANDREY A. et al., "DNA Sequence Analysis By Hybridization With Oligonucleotide Microchips: MALDI Mass Spectrometry Identification Of 5mers Contiguously Stacked To Microchip Oligonucleotides," Nucleic Acids Research, Vol. 28, No. 5, pp. 1193-1198, 2000	<input type="checkbox"/>
	HQ	STUDER et al., "Nanoembossing of thermoplastic polymers for microfluidic applications", <u>Applied Physics Letters</u> 80:3614-16 (2002)	<input type="checkbox"/>
	HR	SWART, REMCO et al., "Recent Progress In Open Tubular Liquid Chromatography," Trends in Analytical Chemistry, Vol. 16, No. 6, pp. 332-342, 1997	<input type="checkbox"/>
	HS	TAYLOR, ANNE M. et al., "Microfluidic Multicompartment Device For Neuroscience Research," Langmuir, Vol. 19, pp. 1551-1556, 2003	<input type="checkbox"/>
	HT	TERRY, STEPHEN C. et al., "A Gas Chromatographic Air Analyzer Fabricated On A Silicon Wafer," IEEE Transactions on Electron Devices, Vol. ED-26, No. 12, pp. 1880-1886, December 1979	<input type="checkbox"/>
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	HU	THOMPSON, H. GARRETT R. et al., "Identification And Confirmation Of A Module Of Coexpressed Genes," Genome Research, Vol. 12, pp. 1517-1522, 2002	<input type="checkbox"/>	
	HV	TOUSSAINT, ARIANE et al., "A New Evaluation Of Our Life-Support System," EMBO Reports, Vol. 4, No. 9, pp. 820-824, 2003	<input type="checkbox"/>	
	HW	TYAGI et al., "Molecular Beacons: Probes that Fluoresce upon Hybridization," Nature Biotechnology, 14:303-308 (1996).	<input type="checkbox"/>	
	HX	UMDANHOWAR, P. B. et al., "Monodisperse Emulsion Generation Via Drop Break Off In A Coflowing Stream," Langmuir, Vol. 16, pp. 347-351, 2000	<input type="checkbox"/>	
	HY	UNDERWOOD et al., "Dynamic relaxation", in <i>Computational Methods for Transient Dynamic Analysis</i> , Belytschko and Hughes, eds., pp. 245-265, Elsevier Science Publishers, Amsterdam (1983).	<input type="checkbox"/>	
	HZ	VAHEY, PAUL G. et al., "Development Of A Positive Pressure Driven Micro-Fabricated Liquid Chromatographic Analyzer Through Rapid-Prototyping With Poly(dimethylsiloxane) Optimizing Chromatographic Efficiency With Sub-Nanoliter Injections," Talanta, Vol. 51, pp. 1205-1212, 2000	<input type="checkbox"/>	
	IA	VAN DAM, R. MICHAEL et al., "Gene Expression Analysis With Universal n-mer Arrays," Genome Research, Vol. 12, pp. 145-152, 2002	<input type="checkbox"/>	
	IB	VAN ORDEN, ALAN et al., "High-Throughput Flow Cytometric DNA Fragment Sizing," Anal. Chem., Vol. 72, No. 1, pp. 37-41, January 1, 2000	<input type="checkbox"/>	
	IC	VERONESE, F. M. et al., "Influence Of PEGylation On The Release Of Low And High Molecular-Weight Proteins From PVA Matrices," Journal of Bioactive and Compatible Polymers, Vol. 14, pp. 315-330, July 1999	<input type="checkbox"/>	
	ID	VERONESE, FRANCESCO M., "Peptide And Protein PEGylation: A Review Of Problems And Solutions," Biomaterials, Vol. 22, pp. 405-417, 2001	<input type="checkbox"/>	
	IE	VOGELSTEIN, BERT et al., "Digital PCR," Proc. Natl. Acad. Sci. USA, Vol. 96, pp. 9236-9241, August 1999	<input type="checkbox"/>	
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	IF	WARD, KEITH B. et al., "Automatic Preparation Of Protein Crystals Using Laboratory Robotics And Automated Visual Inspection," Journal of Crystal Growth, Vol. 90, pp. 325-339, 1988	<input type="checkbox"/>	
	IG	WATERS, L. C. et al., "Microchip Devices For Cell Lysis, Multiplex PCR Amplification, And Electrophoretic Sizing," Analytical Chemistry, Vol. 70, No. 1, pp. 158-162, January 1, 1998	<input type="checkbox"/>	
	IH	WEBSTER, J. R. et al., "Monolithic Capillary Gel Electrophoresis Stage With On-Chip Detector," IEEE, pp. 491-496, 1996	<input type="checkbox"/>	
	II	WEIGL, BERNHARD H., "Microfluidics-Based Lab-On-A-Chip Systems," IVD Technology Magazine, 8 pages, November/December 2000	<input type="checkbox"/>	
	IJ	WHELEN, A. CHRISTIAN et al., "The Role Of Nucleic Acid Amplification And Detection In The Clinical Microbiology Laboratory," Annu. Rev. Microbiol., Vol. 50, pp. 349-373, 1996	<input type="checkbox"/>	
	IK	WHITESIDES, GEORGE M. et al., "Flexible Methods For Microfluidics," Physics Today, pp. 42-48, June 2001	<input type="checkbox"/>	
	IL	WIEBE, MARILYN G. et al., "Evolution Of A Recombinant (Gucoamylase-Producing) Strain Of <i>Fusarium venenatum</i> A3/5 In Chemostat Culture," Biotechnology and Bioengineering, Vol. 73, No. 2, pp. 146-156, April 20, 2001	<input type="checkbox"/>	
	IM	WOOLEY et al., "Functional Integration Of PCR Amplification And Capillary Electrophoresis In A Microfabricated DNA Analysis Device," Anal. Chem., Vol. 68, pp. 4081-4086, 1996	<input type="checkbox"/>	
	IN	WOOLEY, A. T. et al., "Capillary Electrophoresis Chips With Integrated Electrochemical Detection," Analytical Chemistry, Vol. 70, No. 4, pp. 684-688, February 15, 1998	<input type="checkbox"/>	
	IO	WU, CHUNHUNG et al., "Viscosity-Adjustable Block Copolymer For DNA Separation By Capillary Electrophoresis," Electrophoresis, Vol. 19, pp. 231-241, 1998	<input type="checkbox"/>	
	IP	WU, SHUYUN et al., "MEMS Flow Sensors For Nano-Fluidic Applications," Sensors and Actuators A, Vol. 89, pp. 152-158, 2001	<input type="checkbox"/>	
Examiner Signature	/Brian Sines/ (06/20/2008)			Date Considered

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Substitute for form 1449A&B/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		<i>Application Number</i>	10/734,963
		<i>Filing Date</i>	December 11, 2003
		<i>First Named Inventor</i>	Chou, Hou-Pu
		<i>Art Unit</i>	1743
		<i>Examiner Name</i>	Sines, Brian J.
<i>(Use as many sheets as necessary)</i>		<i>Attorney Docket Number</i>	020174-009630US
Sheet	17	of	17

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	IQ	YERSHOV, GENNADY et al., "DNA Analysis And Diagnostics On Oligonucleotide Microchips," Proc. Natl. Acad. Sci. USA, Vol. 93, pp. 4913-4918, May 1996	<input type="checkbox"/>
	IR	YOKOBAYASHI, YOHEI et al., "Evolutionary Design Of Genetic Circuits And Cell-Cell Communications," Advances in Complex Systems, Vol. 6, No. 1, pp. 37-45, 2003	<input type="checkbox"/>
	IS	ZALIPSKY, SAMUEL, "Chemistry Of Polyethylene Glycol Conjugates With Biologically Active Molecules," Advanced Drug Delivery Reviews, Vol. 16, pp. 157-182, 1995	<input type="checkbox"/>
	IT	ZDEBLICK, MARK J. et al., "A Microminiature Electric-To-Fluidic Valve," Transducers '87, Proceedings of the 4th International Conference on Solid-State Sensors and Actuators, reprinted in Micromechanics and MEMS Classic and Seminal Papers to 1990, pp. 2 cover pages, 437-439, June 1987	<input type="checkbox"/>
	IU	ZHENG, BO et al., "A Droplet-Based, Composite PDMS/Glass Capillary Microfluidic System For Evaluating Protein Crystallization Conditions By Microbatch And Vapor-Diffusion Methods With On-Chip X-Ray Diffraction," Angew. Chem., pp 1-4, 2004	<input type="checkbox"/>
	IV	ZIAUDDIN, JUNAID et al., "Microarrays Of Cells Expressing Defined cDNAs," Nature, Vol. 411, pp. 107-110, May 3, 2001	<input type="checkbox"/>

Examiner Signature	/Brian Sines/ (06/20/2008)	Date Considered	
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